SUBJECT INDEX

Adrenal(s)
  inhibition of, steroid metabolism by 1-aminobenzotriazole in guinea pigs, 279
Adrenal zona glomerulosa
  morphology and function of, effects of prolonged sodium restriction in transgenic rats, 155
Androgen(s)
  molecular mechanism of, -dependent growth in transformed cells, 1
Aromatase inhibition
  synthesis and evaluation of 4-substituted 4-androstene-3,17-dione derivatives, 111
  selective inhibition of estrogen production by non-steroidal YM 511, 265

Calcitriol
  the cecum does not participate in the stimulation of intestinal calcium absorption by, 71
Cerebral cortex
  estrogen increases the density of 5-hydroxytryptamine$_{2A}$ receptors in, of the female rat, 15
Corticotropin releasing factor
  decidualization of human endometrial stromal cells *in vitro* by, and interaction with progestin, 251
Cytochrome $P450_{17\alpha}$
  modulation of hydroxylase and lyase activities of bovine, in adrenal and testicular microsomes by a tissue-specific local membrane environment, 121

Dehydroepiandrosterone
  chemoprevention by dietary, against promotion/progression phase of radiation-induced mammary tumorigenesis in rats, 47
  transport of, and its sulphate into rat hepatocytes, 227
Dexamethasone
  effects of, on steroidogenesis in Leydig cells from rats of different ages, 75
1α,25-Dihydroxyvitamin D_3
  immunoaffinity using two antibodies, 217

Endometrial stromal cells
  corticotropin releasing factor decidualizes human, *in vitro*, 251
Estrogen(s)
  increases the density of 5-hydroxytryptamine$_{2A}$ receptors in cerebral cortex and nucleus accumbens in the female rat, 15
  receptors
    alteration of the expression of human, gene by distamycin, 211
    relationship between estrogen structure and conformational changes in, /DNA complexes, 201
Estrogen activity
  of an environmentally persistent alkylphenol in the reproductive tract but not the brain of rodents, 7
Estrogen response element
  polyamine-mediated conformational perturbations in DNA alter the binding of, to poly(dG-m^{5}dC).poly(dG-m^{5}dC) and a plasmid containing the, 89

b-Fibroblast growth factor
  requirement for heparan sulphate proteoglycans to mediate, (FGF-2) induced stimulation of Leydig cell steroidogenesis, 245
Fibronectin
  is an estrogen-repressed protein in RUCA-I rat endometrial adenocarcinoma cells, 131

Gene expression
  alteration of the human estrogen receptor, by distamycin, 211
  of sex-hormone binding globulin secretion and gene expression by cycloheximide *in vitro*, 141

Glucocorticoid(s)
differential dynamics of receptor down-regulation and tyrosine aminotransferase induction following, treatment, 237
Gonadotropin-releasing hormone
-induced biphasic luteinizing hormone secretory responses in rat anterior pituitary cells and αT3-1 gonadotrophs, 101
Growth factor(s)
effects of, in S115 mouse mammary tumour cells, 21

Human recombinant receptor
specific interactions of progestins and anti-progestins with progesterone antibodies, plasma binding proteins and the, 63
21-Hydroxylase
dual regulation of, activity by sex steroid hormones in rat hepatocytes, 163
3α/β (20β)-Hydroxysteroid dehydrogenase
direct expression of pig testicular, in *Escherichia coli*, 257

Leydig cells
effects of dexamethasone on steroidogenesis in, from rats of different ages, 75
requirement for heparan sulphate proteoglycans to mediate basic fibroblast growth factor (FGF-2) induced stimulation of, steroidogenesis, 245

Mammary tumorigenesis
effect of dietary dehydroepiandrosterone in, of rats, 47
MCF-7 breast cancer cells
a one minute pulse of estradiol to, changes estrogen receptor binding properties and commits cells to induce estrogenic responses, 39
Messenger RNA
regulation of guinea pig adrenal *P*450c21, protein and activity by RU486, 31
differentiation of aldosterone synthase and 11β-hydroxylase, expression in the rat adrenal cortex, 193

Ovarian steroids
modulation of gonadotropin-releasing hormone-induced biphasic luteinizing hormone secretory responses by, 101

Phytoestrogen
a urinary profile study of dietary, 167
Progestins(s) and antiprogestin(s)
specific interactions of, with progesterone antibodies, plasma binding proteins and the human recombinant receptor, 63
Protein(s)
crystallization and X-ray investigation of vitamin D-binding, from human serum, 11
Protein tyrosine kinase
role of, in the steroidogenic pathway of angiotensin II in bovine zona glomerulosa cells, 55
Prostate
steroid 5α-reductase isoforms in human, a comparative study of selective inhibitors, 273

Receptor(s)
5-hydroxytryptamine$_{2A}$
effect of estrogen on, in cerebral cortex and nucleus accumbens in the female rat, 15
estrogen(s)
alteration of the expression of human, gene by distamycin, 211
polyamine-mediated conformational perturbations in DNA alter the binding of, to poly(dG-m^{5}dC).poly(dG-m^{5}dC), 89
relationship between estrogen structure and conformational changes in, /DNA complexes, 201
vitamin D
modulation of, by 1,25-(OH)$_2$-vitamin D$_3$ in T-47D human breast cancer cells, 147

5α-Reductase
steroid, kinetic characteristics: extreme pH-dependency of the type II isozyme in prostate and epididymis homogenates, in rat, 185
RUCA-I endometrial adenocarcinoma cells
fibronectin is an estrogen-repressed protein in rat, 131
RU-486
regulation of guinea pig adrenal *P*450c21 mRNA, protein and activity by, 31

Sex hormone-binding globulin
regulation of, secretion and gene expression by cycloheximide *in vitro*, 141
S115 mouse mammary tumour cells
progression to steroid autonomy is accompanied by altered sensitivity to growth factors in, 21
Steroid 5α-reductase isoforms
a comparative study of selective inhibitors of, in human prostate, 273

T-47D breast cancer cells
modulation of vitamin D receptor and estrogen receptor by 1,25-(OH)-vitamin D_3, 147

Urinary steroid profile
chemometric evaluation of, in doping control, 83

Vitamin D
crystallization and X-ray investigation of, -binding protein from human serum, 11
receptor
modulation of, by 1,25-(OH)-vitamin D_3, in T-47D human breast cancer cells, 147

We would like to express our deep thanks to the following persons for their kind collaboration in reviewing papers for this volume of *The Journal of Steroid Biochemistry & Molecular Biology:*
N. Bruchovsky, Vancouver (B.C.), Canada; **E. Johnson**, Parkville, Australia; **Van Luu-The**, Quebec, Canada; **J. I. Mason**, Dallas, U.S.A.; **C. A. McArdle**, Bristol, England, U.K.; **A. McPherson**, Riverside, U.S.A.; **J. Nakamura**, Baltimore, U.S.A.; **D. W. Payne**, Baltimore, U.S.A.; **H. P. Schedl**, Iowa City, U.S.A.; **T. Skaar**, Washington, U.S.A.; **J. L. Tymoczko**, Northfield, U.S.A.; **R. S. Viger**, Montreal, Canada; **R. Wilson**, New York, U.S.A.

AUTHOR INDEX

Abul-Hajj Y. J., 111
Adlercreutz H., 141
Agular B-M., 75
Almon R. R., 237
Andreis P. G., 155

Bakhit M., 101
Bélanger A., 31
Benraad Th. J., 185
Bianchi N., 211
Bicknell R. J., 7
Binacua C., 71
Birkeland K. I., 83
Bloh P., 101
Bodart V., 55
Bouillon R., 11
Brenner R. V., 147
Brommage R., 71
Brooks S. C., 201
Buras R. R., 147

Carrick N., 21
Carrié A-L., 71
Carson M., 141
Chambaz E. M., 121
Christman J. K., 201
Colby H. D., 281

Daly R. J., 21
Darbre P. D., 21
Davoodi F., 147
De Bondt H. L., 11
Defaye G., 121
De Léan A., 55
Délos S., 273
De Ranter C., 11
DuBois D. C., 237

Ellerbrake N., 131
Emons G., 101
Endoh A., 163
Esbensen K., 83
Evans S. R. T., 147

Feriotto G., 211
Ferrari A., 251
Fink G., 15
Fujikura T., 265

Gallo M. A., 89
Gambari R., 211
Guirou O., 273
Gurpide E., 251

Hayes J. S., 63
Heap R. B., 63
Hearn M. T. W., 245
Hedge M., 111
Hemmersbach P., 83
Herbison A. E., 7
Hopert A-C., 131

Ideyama Y., 265
Iehlé C., 273
Igarashi Y., 163
Imazu T., 217
Inano H., 47
Ishii-Ohba H., 47

Joannou G. E., 167
Jusko W. J., 237

Kasayama S., 1
Kelly G. E., 167
Klinge C. M., 89
Knuppen R., 131
Kobayashi N., 217
Koga M., 1
Kudoh M., 265

Laslett A. L., 245
Liu X-P., 111
Loukovaara M., 141

Mais D. E., 63
Mano H., 217
Mantero F., 155
Martin P-M., 273
Matsumoto K., 1
Mayer D., 227
Mazzocchi G., 155
McFarlane J. R., 245
McKay L., 237
Mico B. A., 281
Mischiati C., 211

Nakajima T., 257
Nakajin S., 257
Nanya T., 265
Natsume H., 163
Nauta R. J., 147
Nehls S., 201
Nelson C., 167
Neri G., 155
Norli H. R., 83
Nowak K. W., 155
Nussdorfer G. G., 155

Oaks M. K., 193
Ohno S., 257
Okada M., 265
Ong H., 55
Onoda M., 47
Opocher G., 155
Ortmann O., 101
Otto A. M., 39

Passadore M., 211
Perrin A., 121
Perron S., 31
Peters J., 155
Petraglia F., 251
Piva R., 211
Polin L., 201
Pyszcznski N., 237

Raff H., 193
Raynaud J-P., 273
Rebuffat P., 155
Reeder A. Y., 167
Reuter S., 227
Risbridger G. P., 245
Rocco S., 155

Sato B., 1
Schulz K-D., 101
Schumaker L. M., 147
Shabahang M., 147
Shikama H., 265
Shimada K., 217
Shinoda M., 257
Smals A. G. H., 185
Span P. N., 185
Sumner B. E. H., 15
Sumpter J. P., 7
Susaki Y., 265
Suzuki K., 47
Sweep C. G. J., 185

Tate R., 273
Thomas T., 89
Thomas T. J., 89
Tremblay Y., 31

Uchida M., 257

Vallée M., 31
Van Baelen H., 11
Verboven C. C., 11
Vind C., 75
Voigt J. M., 281
Vollmer G., 131

Wakabayashi K., 47
Wang M-W., 63
Waring M., 167
Westad F., 83
Wünsche W., 131

Xu D., 281
Xu Z-X., 237

Yamanouchi H., 47

TYPESET IN GREAT BRITAIN BY BPC DIGITAL TECHSET LTD, EXETER. PRINTED BY BPC WHEATONS LTD, EXETER